

Application No. 10/786,777
Attorney Docker No. 213187-00008

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In the Claims

1. (Currently Amended). An image processing system for processing video content in a sequence of video frames and linking one or more pixel objects embedded in said video content to selected data objects in a sequence of video frames, the image processing system comprising:

a video capture system for capturing a frame of said sequence of video frames to be viewed defining a captured video frame;

a user interface for enabling a user to select one or more pixel objects in said captured frame defining selected pixel objects;

a pixel object tracking system which includes a processor which automatically tracks said selected pixel objects in other frames;

a video linking system which generates one or more linked video files, separate from and not embedded in said video content, said linked video files ~~being configured to identify~~ identifying selected the pixel objects by frame number and location within the frame and provide one or more links to predetermined data objects for each pixel object, wherein said linked video files ~~configured to be~~ are synchronized with said video content and played back independently while said video content is being played back, wherein said linked video files are configured so that selected locations in said video frames by a pointing device during playback of the video content can be linked with said data objects when said selected locations correspond said pixel objects.

2. (Previously Presented). The system as recited in claim 1, wherein said data content has a predetermined playback rate and said video linking system samples said video content at a sample rate of less than said predetermined playback rate.

3. (Previously Presented). The system as recited in claim 2, wherein said sample rate is three (3) frames per second.

4. (Original). The system as recited in claim 1, wherein said video linking system is configured to identify segment breaks in said video content.

5. (Original). The system as recited in claim 4, wherein said segment breaks are determined by determining the median average pixel values for a series of frames and comparing changes in the pixel values relative to the median average and indicating a segment break when

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the change in pixel values represents at least a predetermined change relative to the median average.

6. (Canceled).

7. (Canceled).

8. (Canceled).

9. (Canceled).

10. (Canceled).

11 (New) The video playback system as recited in claim 1 further including a video playback application for playing back said video content and said linked video files, wherein said video playback application is configured to determine if selected locations by a pointing device during play back correspond to a pixel object and provide a link to a data object when said selected location corresponds to a pixel object.

12 (New) The image processing system as recited in claim 1, wherein said pixel object tracking system automatically compensates for changes in the color values of a pixel object due to lighting changes.